

Date: Wed, 21 Sep 94 04:30:18 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #316
To: Ham-Ant

Ham-Ant Digest Wed, 21 Sep 94 Volume 94 : Issue 316

Today's Topics:

 2m/70cm Transmitter in Camry
 2m vertical in my tree - how to?
 300 ohms TV feedline
 6meter ant?
 Antenna Rotor Wanted
 Common Mode Choke needed for 450 ohm openwire xmission line
 Diamond SX-1000 SWR Meter
 GR 1606A for sale.
 HF Loop antenna for sailboat??
 HF Mobile . . .
 Loaded tower as 160m vertical - formula needed
 Looking for tower mfg
 Needing Info about YAGI.
 SGC "QMS" mobile HF antenna
 Summary - Half Square Antenna

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Sep 1994 12:28:36 -0700
From: btree.is.brooktree.com!usenet@network.ucsd.edu
Subject: 2m/70cm Transmitter in Camry
To: ham-ant@ucsd.edu

Need any information on actual operating experience with a 2m/70cm
50/35W transmitter in a Camry. Am concerned about RFI in the Camry's
electronic circuits. Plan to keep transmitter in trunk and 40" vertical

on trunk lip mount. Have read Sept QST article. Tnx. Ted

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UUCP: ...ucsd!btree!tedm

Date: Thu, 15 Sep 1994 15:41:00 GMT

From: ihnp4.ucsd.edu!mvb.saic.com!news.cerf.net!ent-img.com!wb6hqk!
bart@network.ucsd.edu

Subject: 2m vertical in my tree - how to?
To: ham-ant@ucsd.edu

In article <354gmu\$7t2@tequesta.gate.net>,
Bob Bronson <optronic@gate.net> wrote:

>The highest point of my lot is an oak tree. It is a good 20' higher than
>my roof peak. Two reasons for considering placement in the tree are: 1)
>homeowners assoc. prohibits antennas on roof, & in tree it will be
>somewhat hidden. 2) it's there and higher already. Has anyone made tree
>installations? I would interested in hearing about it. I would expect a
>slight loss being mounted against a 5-8" dia. live tree trunk compared to
>free air. I'm looking at something like the Cushcraft ringo ranger 2
>vertical.

>

Trees are pretty lossy on 146 MHz so it's usually worthwhile to try to keep the antenna as far away from the tree parts as possible. I suggest you make up a fairly low Q wire antenna such as a folded dipole, cage dipole or full wave loop and suspend it in the tree with fishing line, sinkers and other fishing hardware. It will be stealthy and will likely perform better than an expensive shiny commercial antenna. If the transmission line run is more than about 30 feet you should give serious consideration to using parallel feedline such as outdoor TV twinlead. For a given visible cross section and cost it's much lower loss than coax if it's run properly.

bart wb6hqk

bart@wb6hqk.ampr.org

Date: 21 Sep 94 06:59:33 GMT

From: news-mail-gateway@ucsd.edu
Subject: 300 ohms TV feedline
To: ham-ant@ucsd.edu

Hello all,

I've just read some projects regarding J-poles antennas... These are fine, but here in Italy 300 ohms TV feedlines aren't yet sellled: Modern TV receivers have a 75 ohm coax plugs, and for older ones are sellled 75-to-300 ohms balun, and these are over 15 years old and b/w. So these tv are going to extinct.

My question is not where I can found (in Italy) a 300 ohm cable seller, but if I can build similar antennas using insulated wire, or brass bars or similar things.

Any suggestion will be appreciated

Mike

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-- ++++++  
+ 73 de IW1CFL - Michele Debandi +  
+ IK1QLD-10 Universita' di Torino Team - NWIDG +  
+ Amprnet > iw1cfl@ik1qld-10.ampr.org +  
+ Internet > mike@radio-gw.cisi.unito.it +  
+ Packet AX25 BBS > IW1CFL@I1YLM.IPIE.ITA.EU +  
++++++
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Date: Tue, 20 Sep 1994 08:35:40 EDT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!usc!
elroy.jpl.nasa.gov!lll-winken.llnl.gov!noc.near.net!saturn.caps.maine.edu!
maine.maine.edu!jbaack31@network.ucsd.edu
Subject: 6meter ant?
To: ham-ant@ucsd.edu

Hello, all of you 6meter fans out there what have you found to be the best antenna for the least amount of \$\$.. Should I spend the bucks or should I just stay with the homemade dipole?

Thanks Jason N1RWY

"RF burn is no laughing matter...unless it happens to
your neighbors dog.."

JBAACK@MAINE.MAINE.EDU

Date: 21 Sep 1994 00:59:08 -0400
From: newstf01.cr1.aol.com!newsbf01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Antenna Rotor Wanted
To: ham-ant@ucsd.edu

I am in need of an antenna Rotor, it must be able to handle a windload of

5 sq feet, i need one soon, i will cosider all offers. Let me know via email. Thanks
Jason

Date: Wed, 14 Sep 1994 17:05:02 GMT
From: ihnp4.ucsd.edu!mvb.saic.com!news.cerf.net!ent-img.com!wb6hqk!
bart@network.ucsd.edu
Subject: Common Mode Choke needed for 450 ohm openwire xmission line
To: ham-ant@ucsd.edu

I recently erected an HF antenna 130 feet long averaging 25 feet above the ground fed 33 feet from one end with open wire line. It works great on 40m and on much of 80 but has severe feedline radiation towards the top of 75 which wouldn't be so bad except it creates incurable (so far) TVI and wreaks havoc with the computer. I live in an urban environment and have found the noise level on the antenna to average two S units below a roof mounted commercial multiband vertical with comparable or stronger signals and suspect if I can eliminate the vertically polarized feedline radiation the noise may even decrease more! The problem is what to do. I may be able to lengthen the long part of the antenna by making a 90 degree turn and adding 40 feet or so which should bring the feedpoint impedance up on 75 but it seems like a common mode choke on the feedline should do the trick. Since the feedline SWR is pretty high (at least 20:1) the choke would need to be capable of fairly high voltage operation. Does anyone have any suggestions?

Thanks,

bart wb6hqk

bart@wb6hqk.ampr.org

Date: 20 Sep 1994 06:57:47 -0700
From: btree.is.brooktree.com!usenet@network.ucsd.edu
Subject: Diamond SX-1000 SWR Meter
To: ham-ant@ucsd.edu

Need any information available on Diamond SX-1000 SWR meter regarding performance to specs, reliability, cost-effectiveness, etc, for 14 - 1300 Mhz mobile and portable applications. Tnx. Ted

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UUCP: ...ucsd!btree!tedm

Date: 20 Sep 1994 08:58:06 -0400
From: newstf01.cr1.aol.com!newsbf01.news.aol.com!not-for-mail@uunet.uu.net
Subject: GR 1606A for sale.
To: ham-ant@ucsd.edu

Test Equipment, etc., for SALE:

1. GR 1606-A RF Impedance Bridge-the best one for antenna work. 400 kHz-50 MHz, with copy of manual. Works. BUT-doesn't have a chassis, and it won't work without one (I tested this one in another GR1606 chassis). You need to supply the chassis and check/perform the calibration (manual sez how).

\$100 plus shipping-a deal for some minor metal work.

Scott

nx7u@aol.com

Date: Tue, 20 Sep 1994 06:57:18 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!torn!nott!cunews!
freenet.carleton.ca!FreeNet.Carleton.CA!ar445@network.ucsd.edu
Subject: HF Loop antenna for sailboat??
To: ham-ant@ucsd.edu

I am new with this newsgroup as well as a recently Ham (with full privileges). I have a sailboat which I plan to sail down to the Bahamas next year and will intall on it my Kenwood TS450. I currently use a 20m dipole as an antenna on the boat and my transceiver has an antenna tuner. I don't seem to be able to transmit very strongly with this antenna even on 20 meters and reception of distant stations is good while local stations are usually weak.

I have looked for substantial written documentation on boat antennas but have come across texts covering mainly mobile or boat antenna solutions. I purchased the SSCA (seven Seas) book on installing an HF on a boat and again did not find many original solutions.

I was thinking of installing a small loop antenna but was wondering if anyone had experience with this type of installation. Would it work effectively on a sail boat? Should it be mounted above the mast? and how high above? or could it be mounted on a pole attached to the stern (or even to the bow)? What kind of coas would best be suited for this installation? Any other hints or solutions you might offer??

I realize that answers to similar questions may have been posted previously. If so, I would very much appreciate if someone would post them again for me - or e-mail me at ar445@freenet.carleton.ca

Thanks very much for your cooperation. I appreciate any help anyone can offer. I will endeavor to report on the efficiency of the antenna type I will install as a result of this query.

Fern Charron VA3CHA in Ottawa, Can.

Date: 16 Sep 94 14:13:20 GMT
From: news.cerf.net!nntp-server.caltech.edu!netline-fddi.jpl.nasa.gov!
news.byu.edu!news.kei.com!eff!news.duke.edu!convex!cs.utexas.edu!
howland.reston.ans.net!vixen.cso.uiuc.edu@ihnp4.ucsd.edu
Subject: HF Mobile . . .
To: ham-ant@ucsd.edu

jmessner@satelnet.org (James Messer) writes:

>In <35a21g\$3o6@krel.iea.com> pfeuffer@comtch.iea.com (Joe Pfeuffer) writes:
>>. . . I'm looking for the company that makes a mount for an HF whip to a
>>trailer hitch. Any help would be appreciated.

>>73

>>KW1K

>>P.S. If I can get on HF mobile -- I'll be able to drive 90 miles and put
>>some of them "rare" Idaho and Montana counties on the air!

>Have you looked at the High Sierra 3.5-30MHz mobile 'screwdriver'
>antennas? I'm even considering putting one up at home because of the
>frequency range of the antenna. It's about three feet tall and has a 5-6
>foot whip that extends above that. They advertise in CQ - let me know if
>you need more information.

I've often thought of using a mobile antenna at home because of how well it works...but how do you dupe the conditions under which it works so well? I think you need to park a big old Caddy on the front lawn. Why is this such an effective counterpoise? If I had a motorhome parked next to my house (a socially acceptable behavior it seems), I would put the antenna on it.

Chuck Hawley, KE9UW in Urbana, Illinois
hawley@aries.scs.uiuc.edu
School of Chemical Sciences, Electronic Services
University of Illinois, Urbana-Champaign

Date: Wed, 14 Sep 1994 17:09:54 GMT
From: ihnp4.ucsd.edu!mvb.saic.com!news.cerf.net!ent-img.com!wb6hqk!
bart@network.ucsd.edu
Subject: Loaded tower as 160m vertical - formula needed
To: ham-ant@ucsd.edu

In article <3521do\$h90@nntp.hut.fi>,
Jukka Tapi Sirvi| <jsi@vipunen.hut.fi> wrote:
>I'm looking for a formula to calculate electrical length of a tower loaded
>with number of yagis at different heights. The ones I've found assume all
>beams to be at the top of the tower. In this case the tower is loaded with
>big yagis practically from bottom to top. Any reference appreciated.
>
>What effects will the yagis have other than broader bandwidth and shift
>in electrical length ? Higher efficiency ? (some antennas are at the top).
>What else ?

Probably your best bet is to get a hold of one of the numerical antenna simulation software packages and model it. There are a variety of packages around, such as ELNEC, based on the public domain MININEC code which would do a fine job of not only modeling what the existing tower will do but the entire 160m system as well.

bart wb6hqk

bart@wb6hqk.ampr.org

Date: 20 Sep 94 17:57:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Looking for tower mfg
To: ham-ant@ucsd.edu

I want to illuminate our riding arena and have investigated commercial lights and towers. Well, for the price of the towers I could buy one of every ham radio on the market. Then I remembered that back in the midwest (MI, OH) they had these cheap TV towers. Only problem is that they are not marketed here in the NW. The towers only need hold about 5 lbs of a lighting fixture on the

top, so they need not be real sturdy. I will probably put them up once and forget about them. Also, I need 6 to 8 of them.

If any hams in the midwest (or elsewhere) know of a manufacturer or distributor for cheap TV towers (20 -30 ft tall) I would appreciate their phone number or address.

Please e-mail any replies as our site does not have a news feed.

Thanks in advance.

Bill KA4GAV/7

Weyerhaeuser
206.924.5890

Date: Mon, 19 Sep 1994 18:50:21 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!sunic!news.funet.fi!
nntp.utu.fi!jusleniapolku.utu.fi!user@network.ucsd.edu
Subject: Needing Info about YAGI.
To: ham-ant@ucsd.edu

Hello Fellows!

Does anybody where to get *a Macintosh software* for planning, testing, and building YAGI antennas? My friend who is needing this prefer to find something that is free or shareware. Also, all Macintosh programs which loosely relates to the ham-radio, etc. area are needed.

Could you send me the suggestions for the FTP, Gopher, WWW sites to my address below. I prefer personal mail, since I don't follow this list activily.

Thanks!

Jouni.Santara@utu.fi

Date: Tue, 20 Sep 1994 17:16:17 GMT
From: world!dts@uunet.uu.net
Subject: SGC "QMS" mobile HF antenna
To: ham-ant@ucsd.edu

In article <Z6yRPhr.mlazaroff@delphi.com>, <mlazaroff@delphi.com> wrote:
>Hi...has anyone tried the "QMS" mobile antenna system advertised
>by SGC? This is the one that consists of their 8-ft helical whip,
>their SGC-230 automatic tuner and their "quick mounting system".
>
>They advertise this thing as being effective from 2-30 MHz and claim that
>because the dual-section whip is helically wound (resonant points at
>11 and 22 MHz) it's "more effective" than "an ordinary 9-foot whip".
>They say the higher effectiveness is most noticeable at the lower
>frequencies (80 and 40 meters). I might be able to believe it's more
>effective than a "regular" 8 or 9 foot whip antenna, but I'm not
>convinced that it's more effective than a good center-loaded antenna
>like the "screwdriver", High Sierra, Hustler, etc., without a tuner.
>It also is very pricey (\$895) compared to a Hustler or High Sierra.
>
>If anyone has actually tried one of these things, I'd like to hear
>about your experiences. Is it any good? How effective is it on
>80 and 40? Thanks.
>
>73, Mike KB3RG

If you are thinking of this antenna, read the "Arials" article in the latest World Radio. Kurt Sterba (not his real name) really roasted this antenna system. In general, if he likes a product, it must be pretty good. If he does not like a product, or the advertising for a product, he lets loose on it...

Recommended reading :-)

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Daniel Senie Internet: dts@world.std.com
Daniel Senie Consulting n1jeb@world.std.com
508-779-0439 Compuserve: 74176,1347

Date: Tue, 20 Sep 1994 15:54:32 GMT
From: ncrgw2.ncr.com!ncrhub2!ncrcae!news@uunet.uu.net
Subject: Summary - Half Square Antenna
To: ham-ant@ucsd.edu

>In article <35fmvj\$ask@chnews.intel.com> Cecil_A_Moore@ccm.ch.intel.com writes:
>
>In article <9408167797.AA779746864@atlas.ccmail.airtouch.com>,
>ken silverman <ken.silverman@atlas.ccmail.airtouch.COM> wrote:
>

>>40m Dipole @ 37' 4.99 dBd at 68 degs
>>40m halfsquare @ 37' 6.52 dBd at 5 degs
>
>Hi Ken, I wish I had your salt water. On second thought, maybe not,
>since that would mean CA fell into the ocean with my daughter aboard.
>
>ELNEC says a 40m half-square at 40 ft over real AZ ground has a maximum
>gain of only 3.7 dbi (1.6 dbd) but the low-angle of radiation makes it
>better than a resonant dipole for DX. For close in work (less than 1000 mi)
>the dipole is better (for AZ soil).
>--
>73, Cecil, KG7BK, OOTC Most of the doors in amateur radio can
>(Not speaking for Intel) not be opened by a -.-. --- key.
>>
I wish I had gotten in on the thread earlier....I introduced a friend in
Atlanta, Ga., to this
type of antenna and he discovered a whole new layer of dx on 40 meters. He had
previously been using a 40m 1/4 wave sloper. For those who want to try it,
remember
to connect the center conductor of the coax to the horizontal phasing wire and
the
shield to the vertical radiator at the corner. My buddy got them backward and
couldn't
get the thing to give any kind of decent swr curve. The article in CQ the last
month or
two did a decent job of telling how to put one up, but was pitifully thin on
performance
details. Here's a data point for you: during Romeo's now-invalidated operation
to
North Korea (I guess he was really a few miles south of Vladivostok, but who
knows?),
40m opened one afternoon long path to SE Asia. I have a 2 element 40m yagi at
70
ft. We were both hearing P5RS7 weakly thru the din, but not well enuff to work.

But, we were hearing him! The apparent problem was that he couldn't hear us.
Bottom line: the half square is a very competitive DX antenna and will compete
favorably with the low (50-120 ft) 40m yagis. 73, Tom WB4iUX

73, Tom WB4iUX

My posting is my view only and not AT&T's. But you know that!

DX IS !!!!!

And always will be.....

End of Ham-Ant Digest V94 #316
